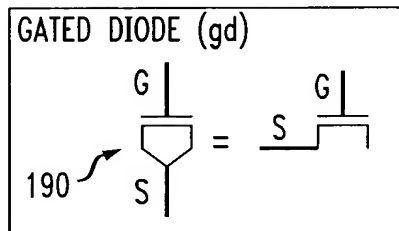




*FIG. 1A*



*FIG. 1B*

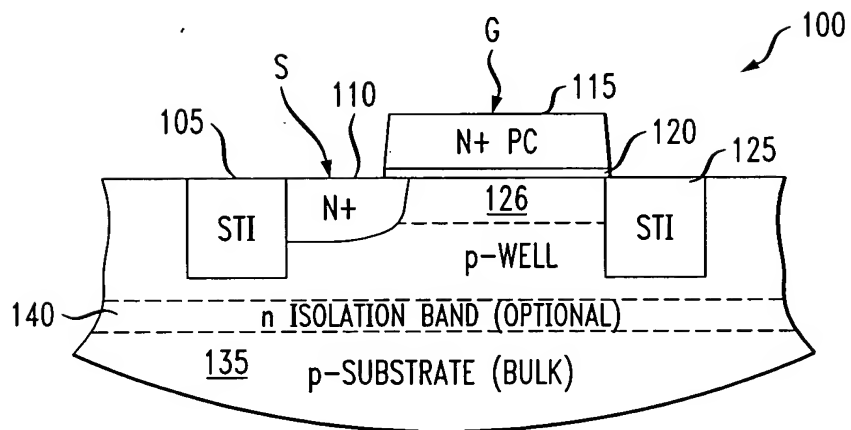


FIG. 2A

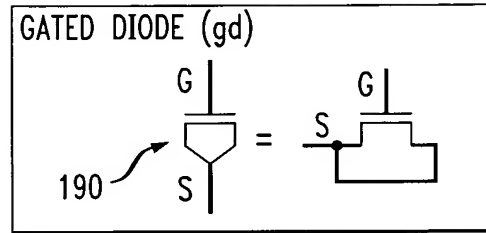
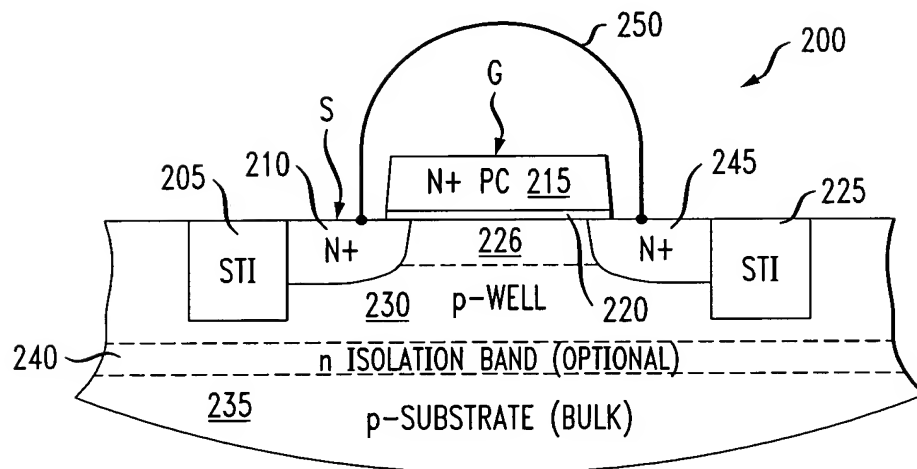
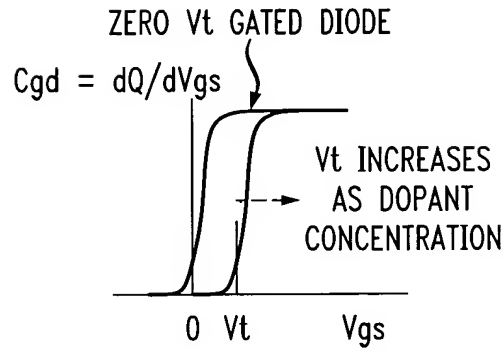


FIG. 2B

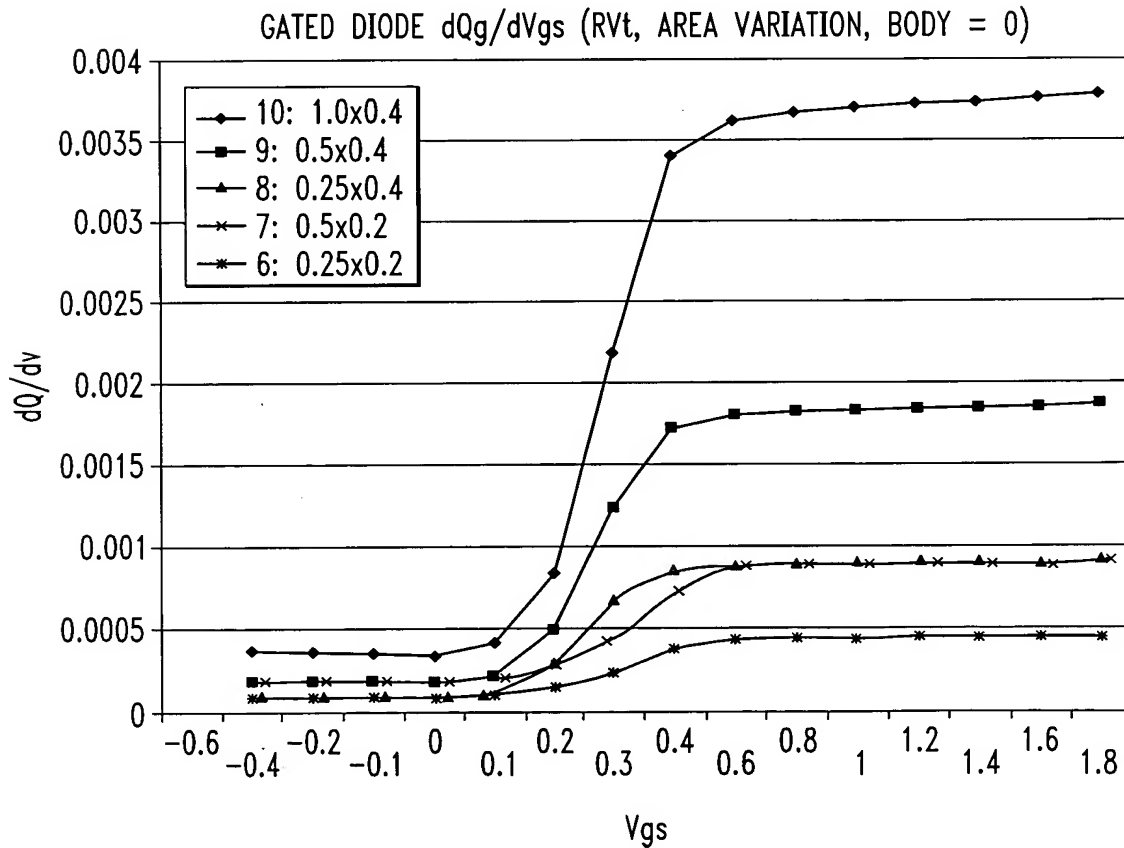


*FIG. 3A*

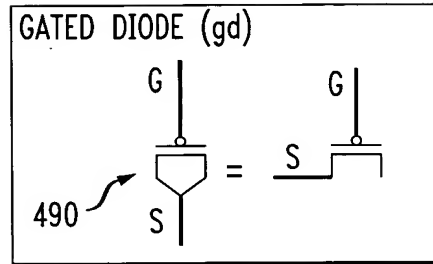


*FIG. 3B*

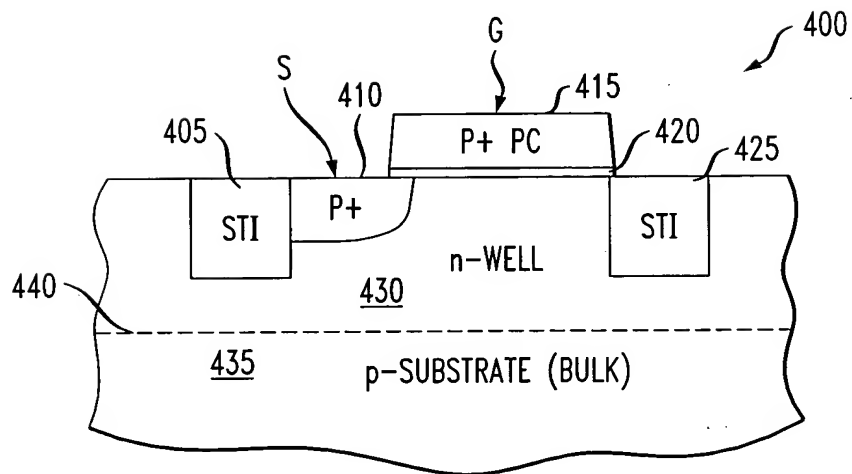
GATED DIODE CAPACITANCE vs GATE-TO-SOURCE VOLTAGE ( $V_{gs}$ )  
EACH CURVE REPRESENTS A DIFFERENT GATED DIODE GATE SIZE.  
THRESHOLD VOLTAGE = 0.2 V



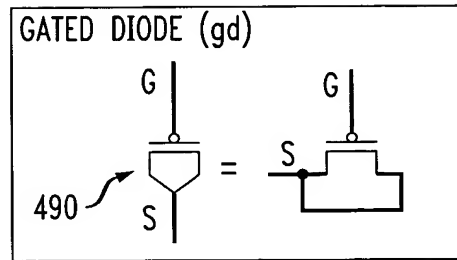
*FIG. 4A*



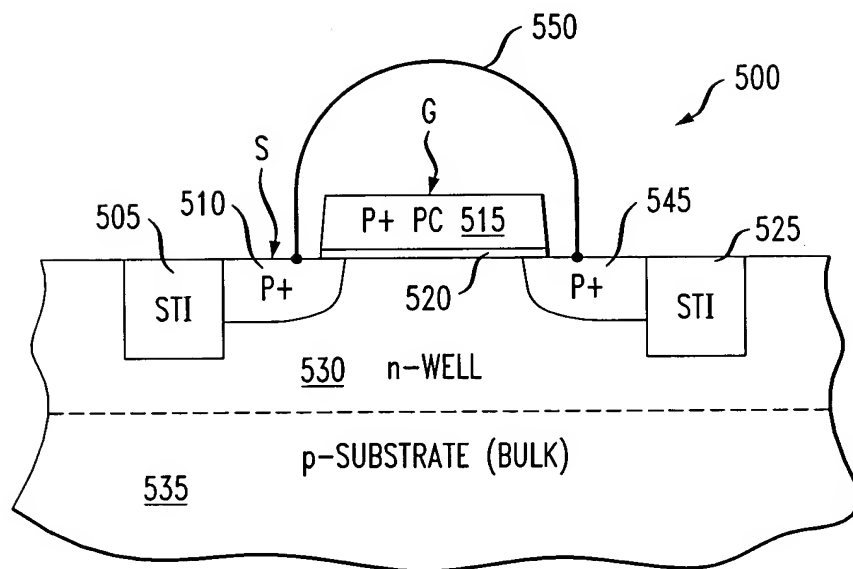
*FIG. 4B*



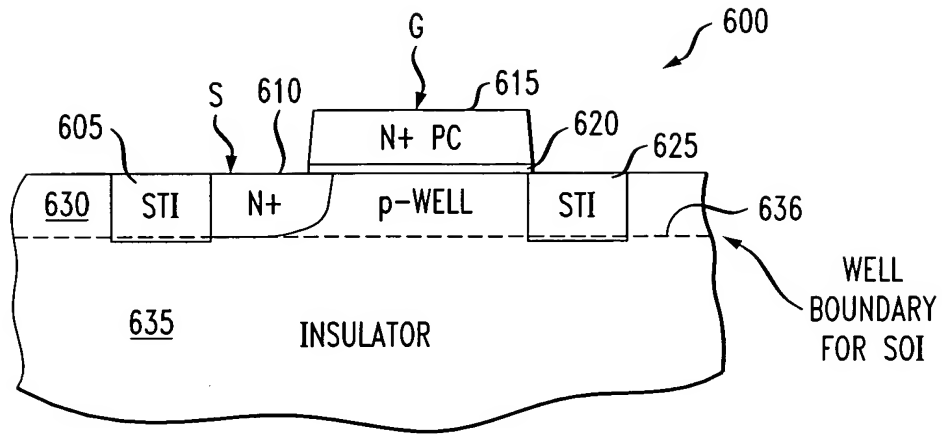
*FIG. 5A*



*FIG. 5B*



*FIG. 6*



*FIG. 7*

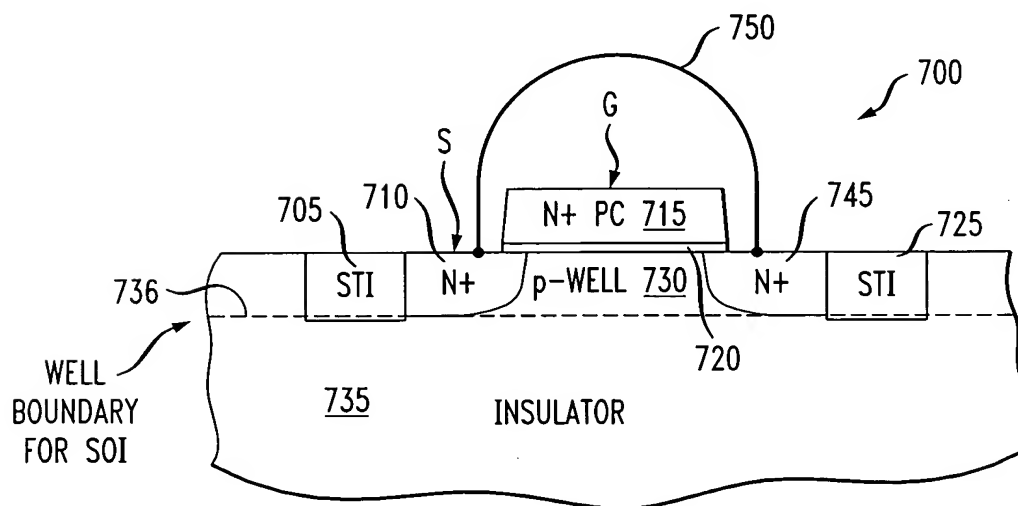


FIG. 8

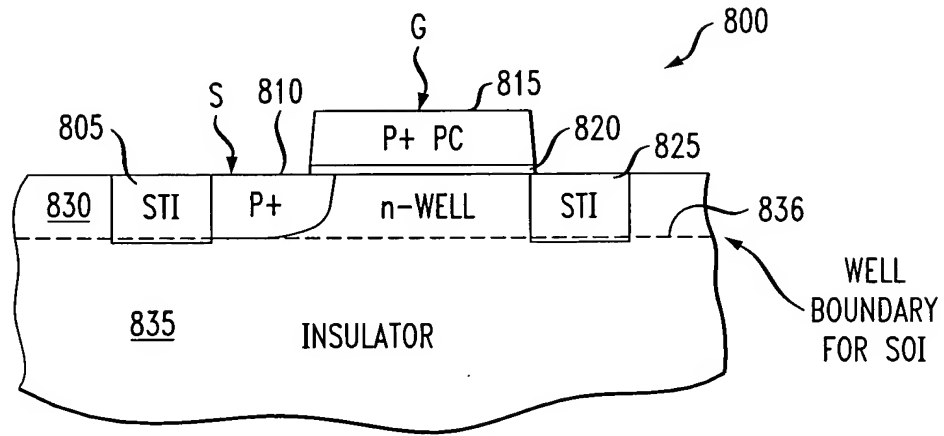


FIG. 9

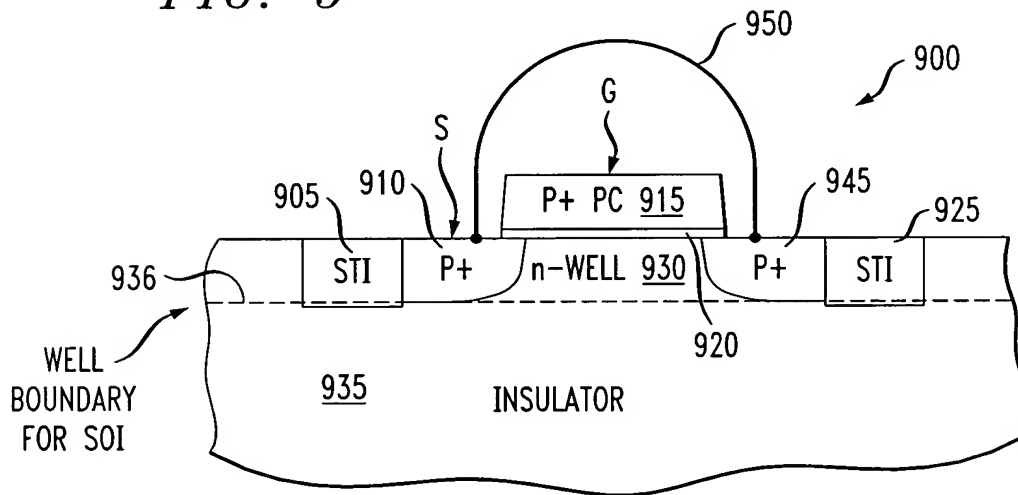
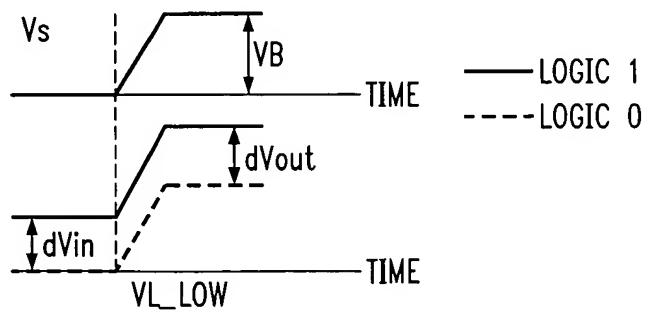
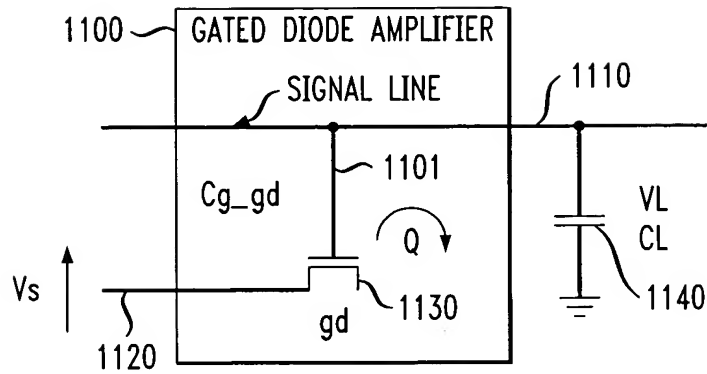


FIG. 10

LINEAR CAPACITOR  
GAIN =  $dV_{out}/dV_{in} = 1$

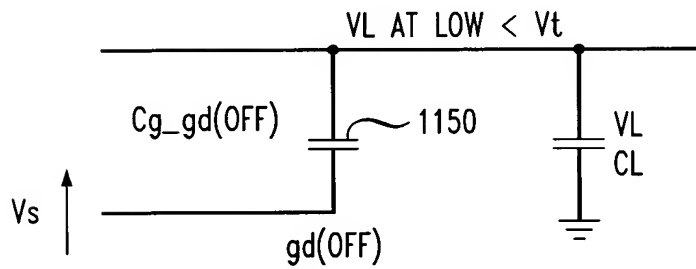


*FIG. 11A*



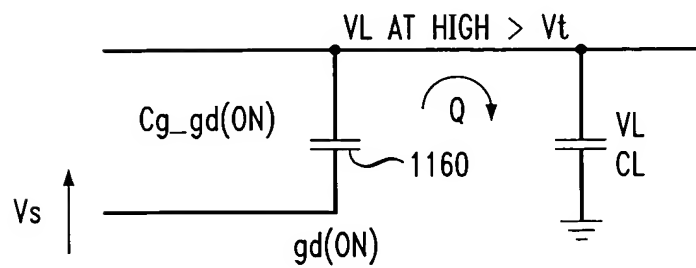
*FIG. 11B*

GATED DIODE AMPLIFIER REPRESENTATIVE CIRCUIT



*FIG. 11C*

GATED DIODE AMPLIFIER REPRESENTATIVE CIRCUIT

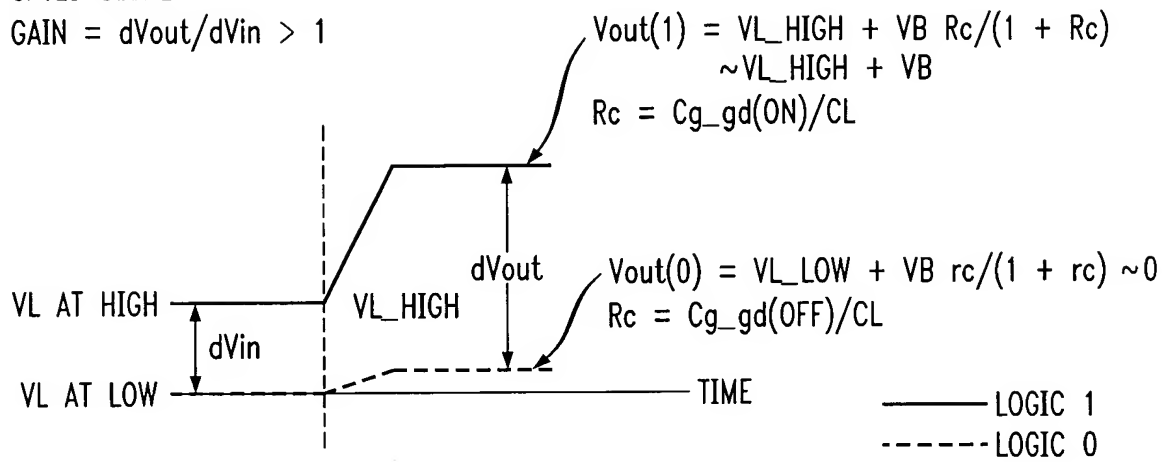




*FIG. 12A*

GATED DIODE

$$\text{GAIN} = dV_{\text{out}}/dV_{\text{in}} > 1$$



*FIG. 12B*

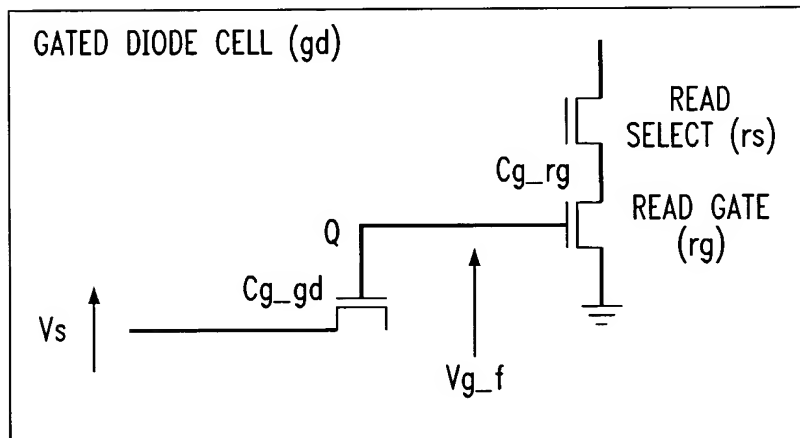


FIG. 12C

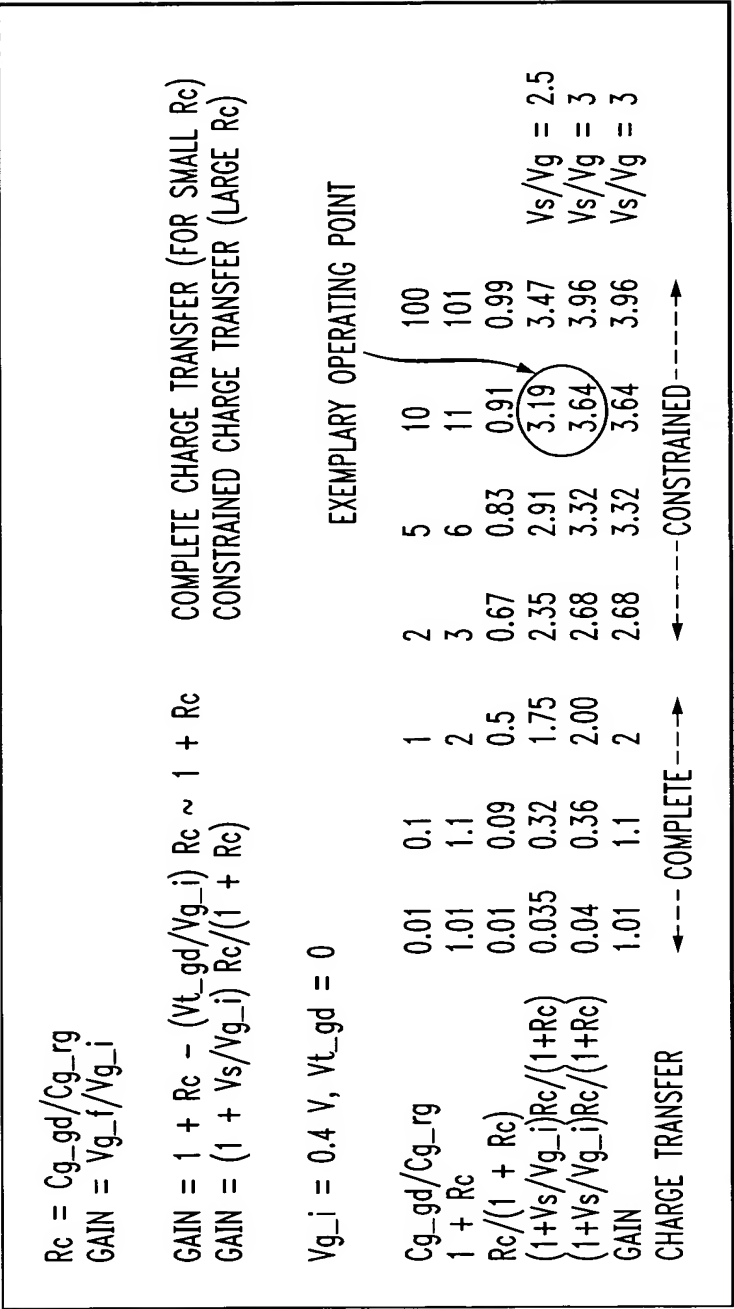
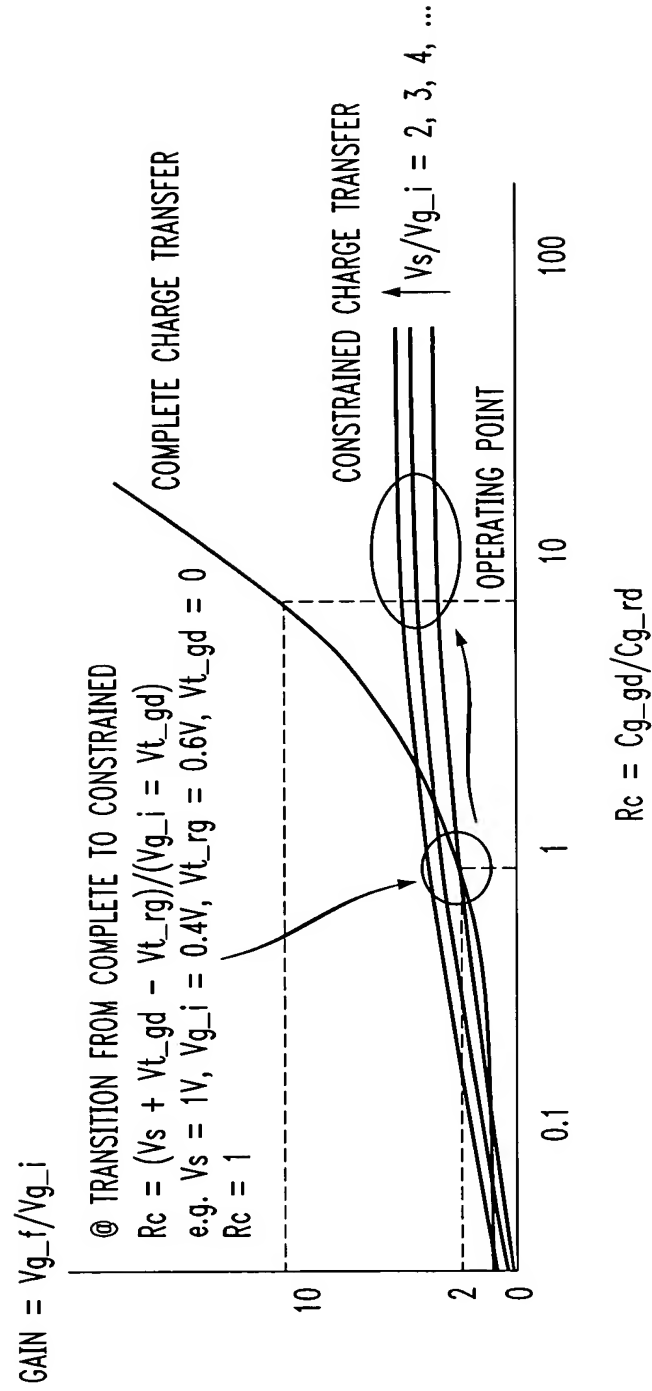
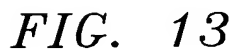


FIG. 12D





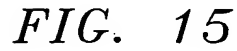


FIG. 17

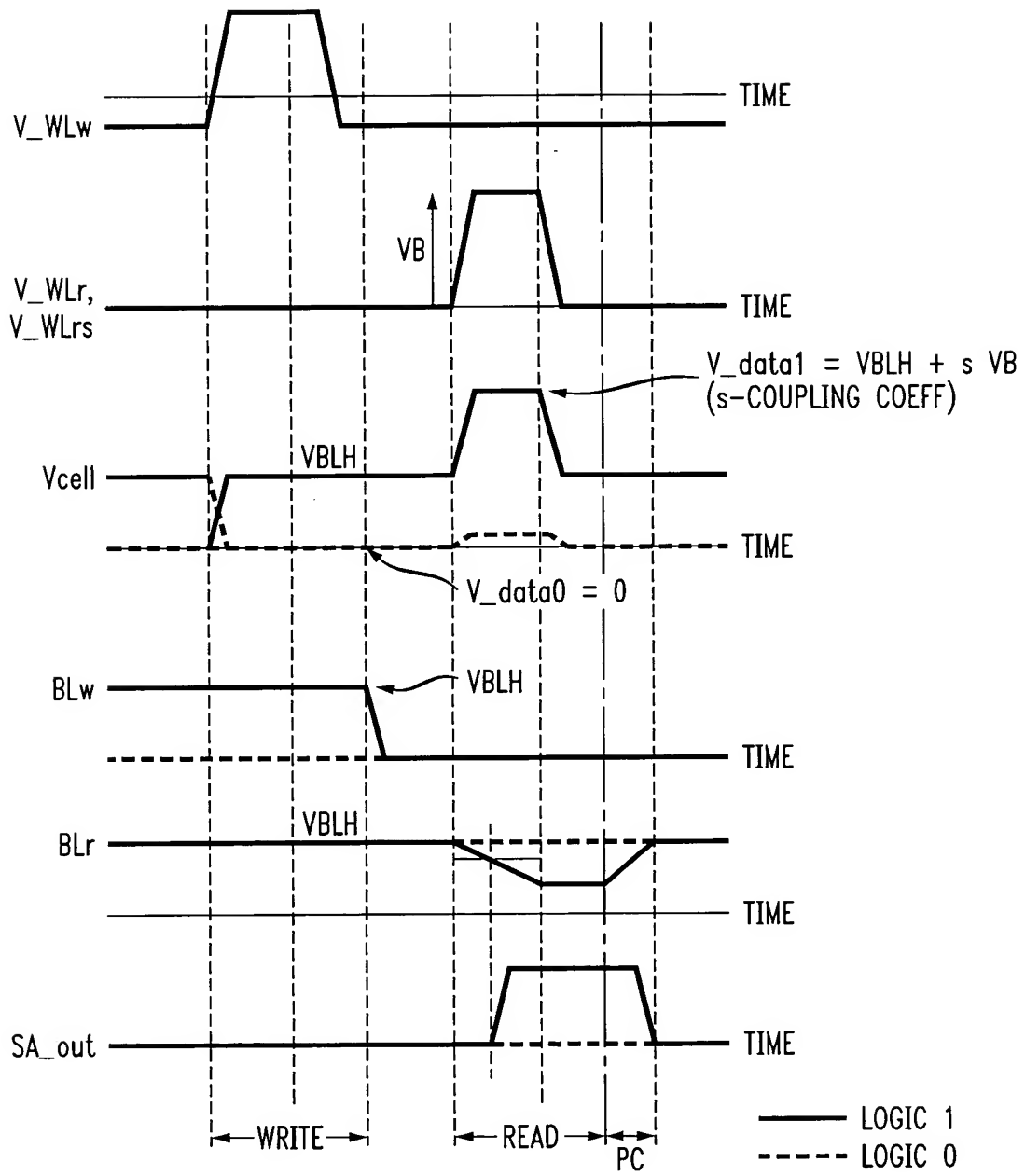


FIG. 18

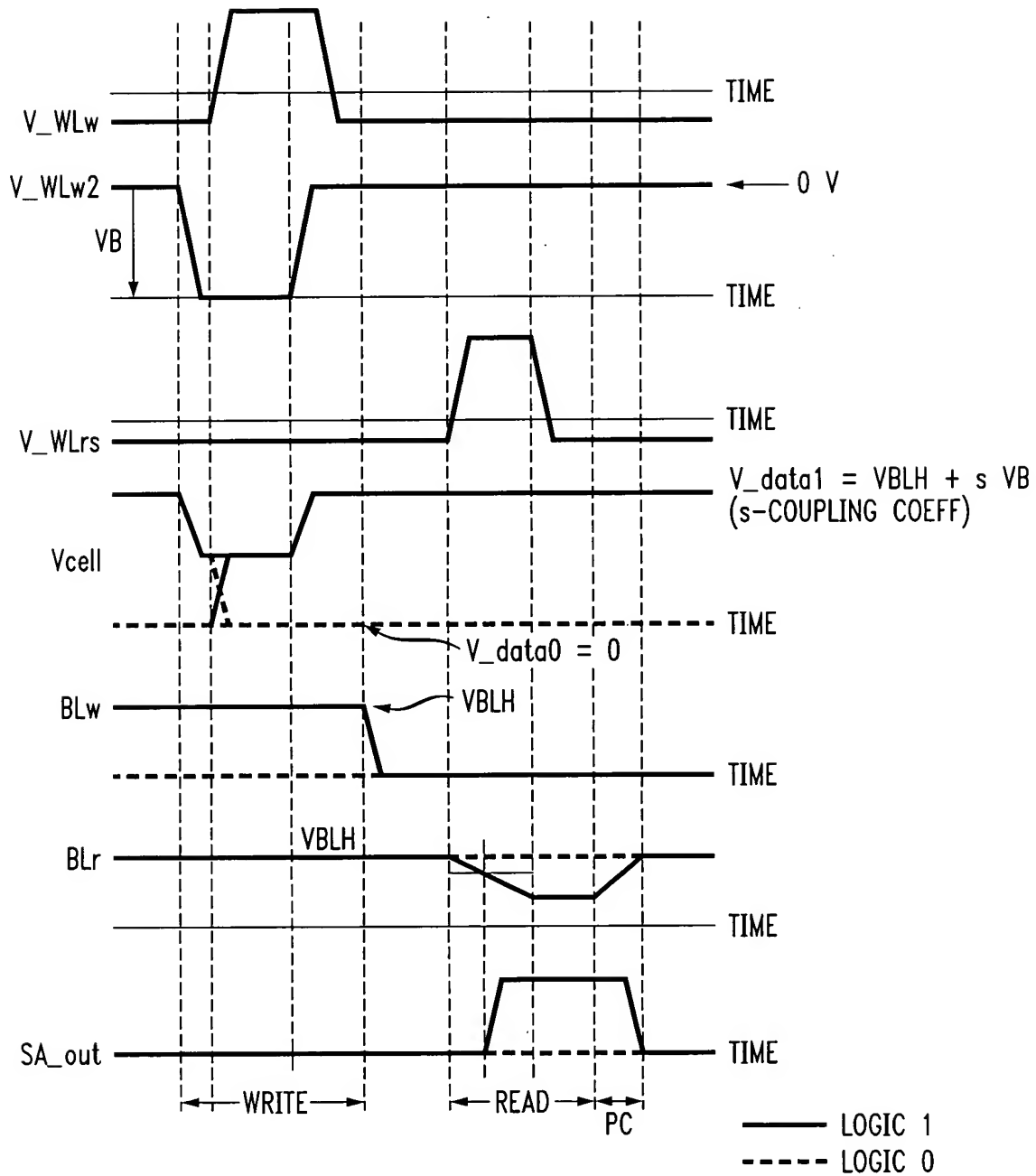


FIG. 19

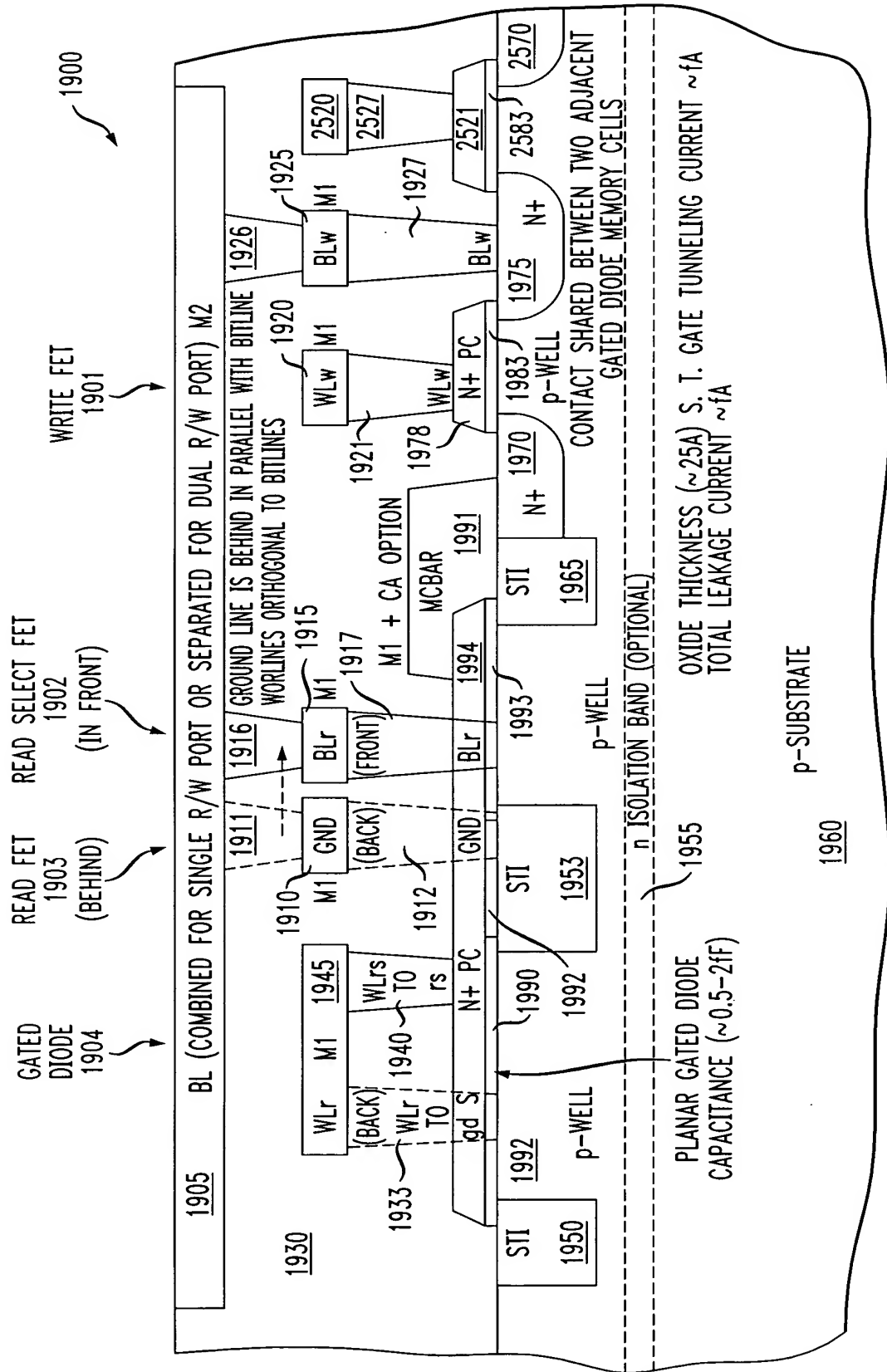






FIG. 21

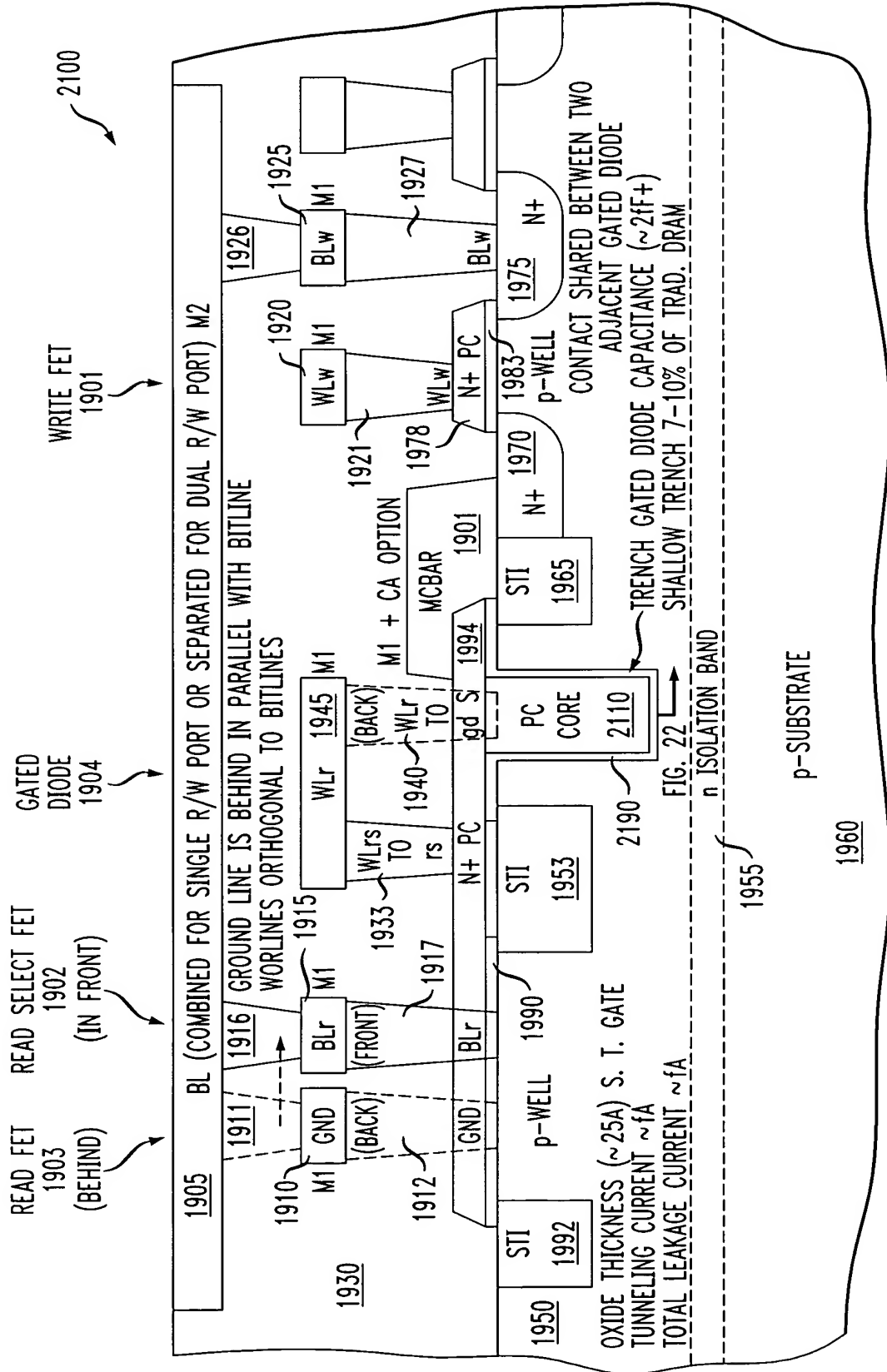


FIG. 22

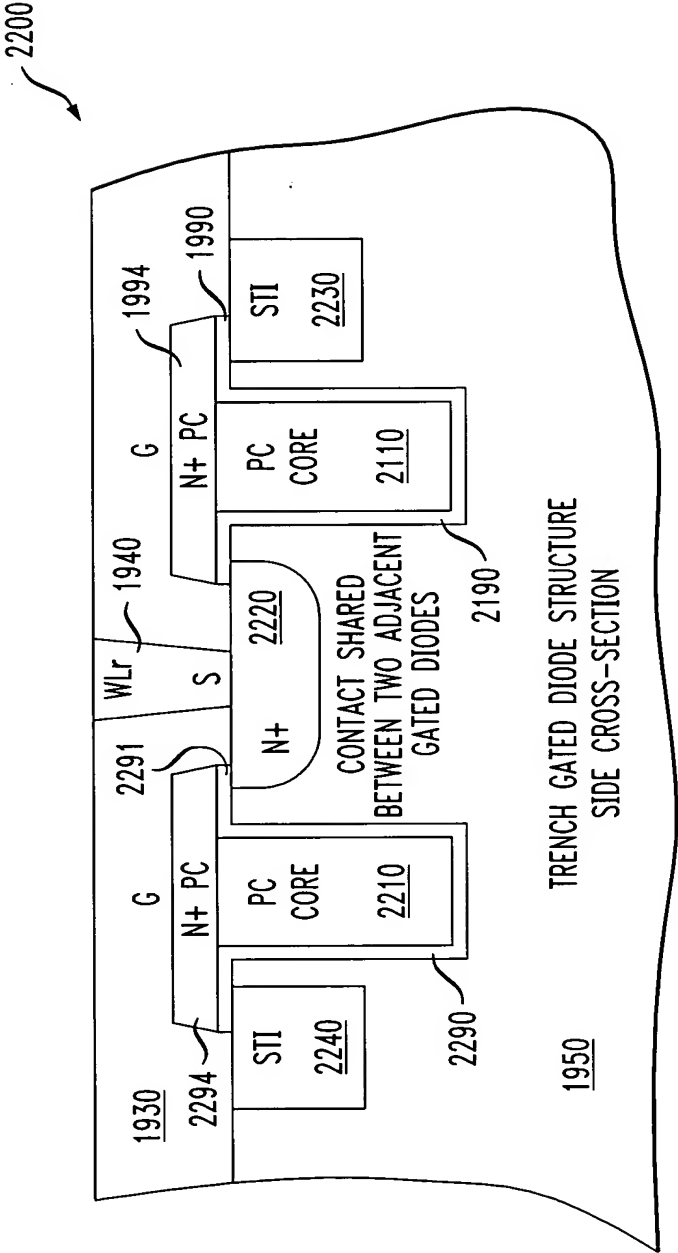


FIG. 23

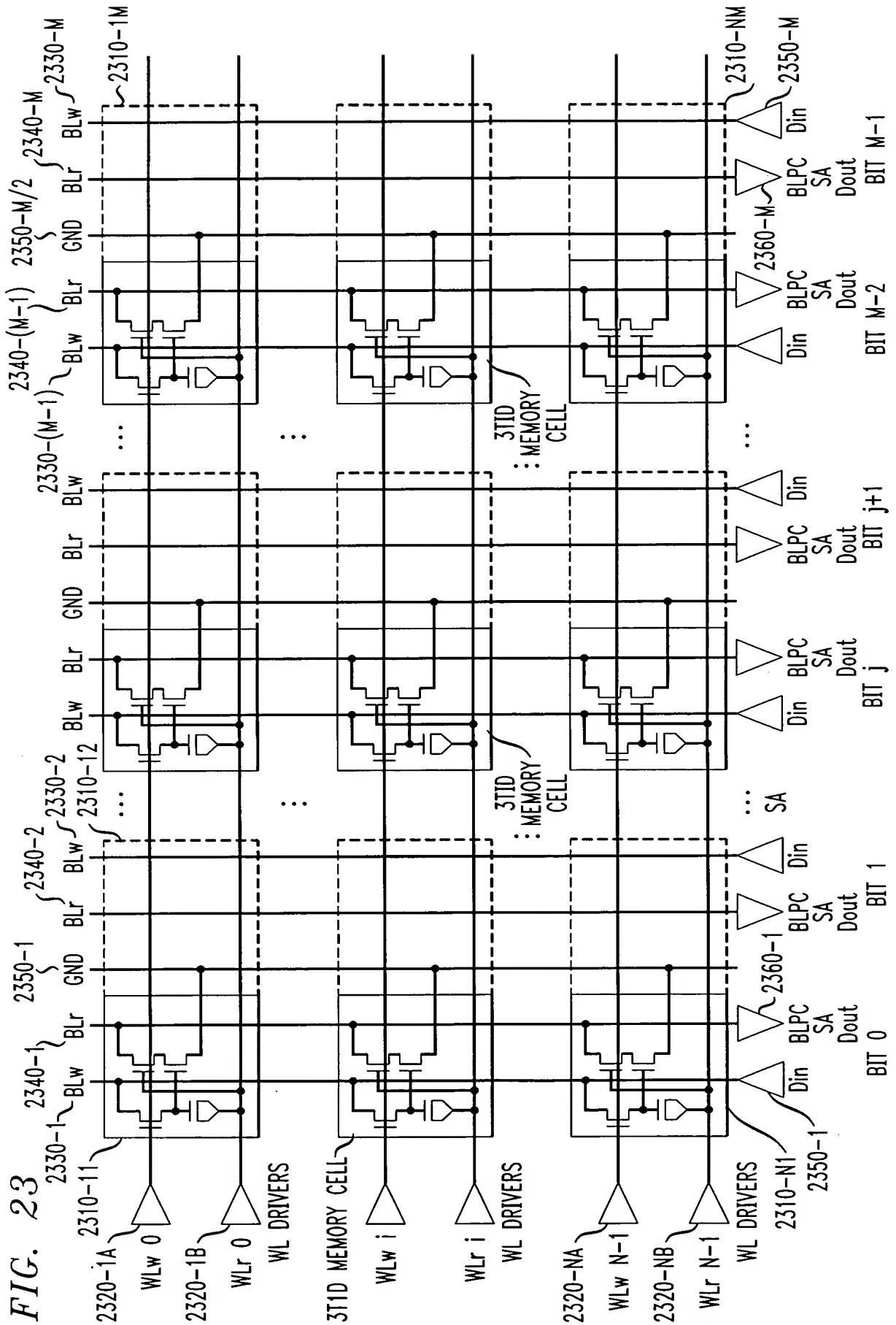


FIG. 24

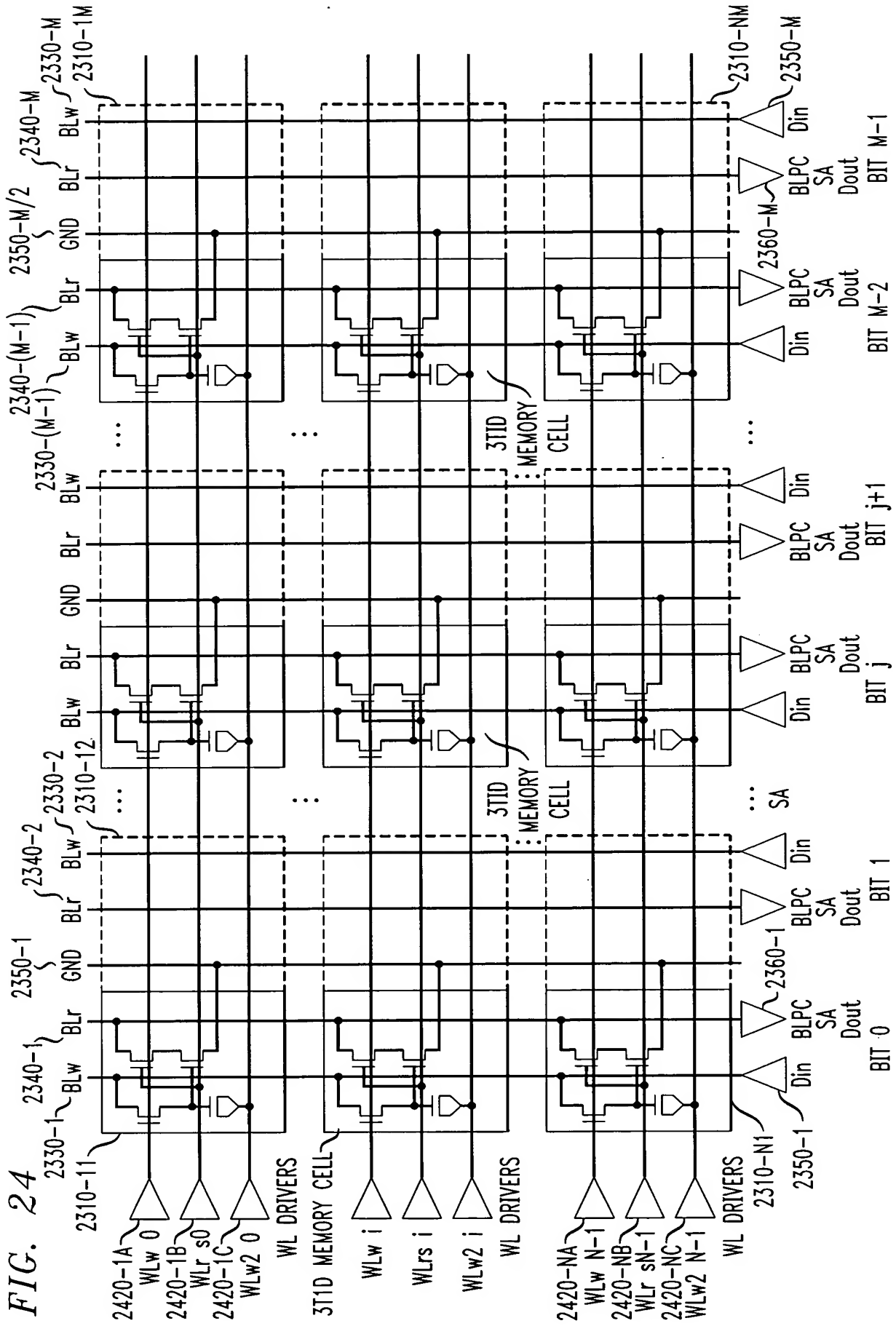


FIG. 25

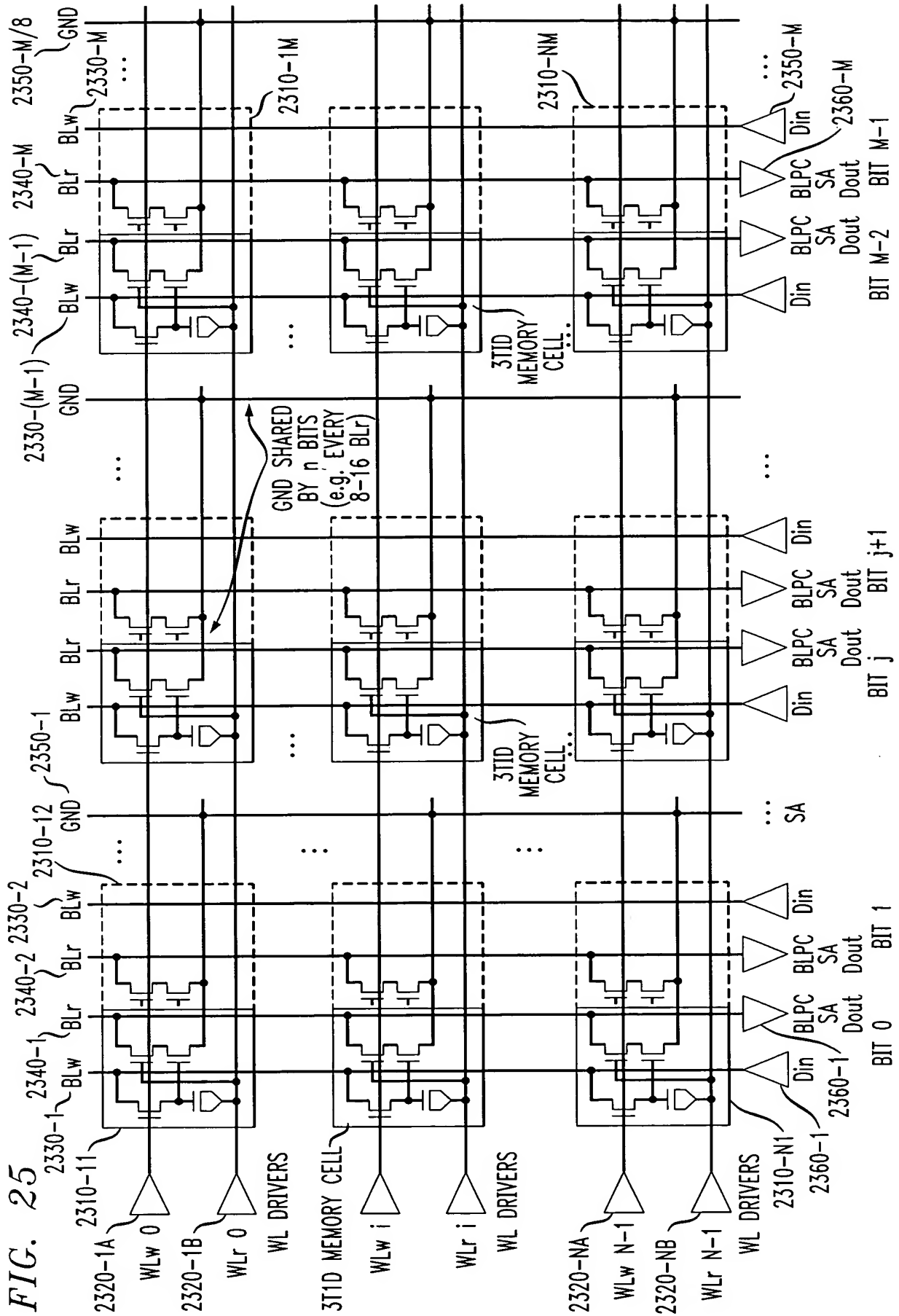


FIG. 26

